

## CLAIMS

What is claimed is:

1. A method for verifying operation of an initiator in bus architecture, comprising:  
receiving a selected characteristic for testing;  
controlling a behavior of a target according to said selected characteristic; and  
validating operation of an initiator, whereby a response of said initiator to said behavior of said target is monitored to ensure proper initiator operation.
2. The method as claimed in claim 1, wherein said receiving of said selected characteristic for testing is part of a full domain testing scheme whereby a receipt of said selected characteristic is a single test of said full domain testing scheme.
3. The method as claimed in claim 1, wherein controlling said behavior of said target includes delivering an executing request to said target, said execution request including a vendor unique command.
4. The method as claimed in claim 3, wherein said vendor unique command relates to said selected characteristic for testing.
5. The method as claimed in claim 4, wherein said behavior of said target is controlled by the execution of the execution request by said target.
6. The method as claimed in claim 1, further comprising validating operation of said target by monitoring a second response of said target to said response of said initiator.

7. The method as claimed in claim 1, wherein said selected characteristic for testing is at least one of XFER-READY data request size, disconnect boundaries, failure status packets, data overrun injection, data underrun injection, CRC error injection, protocol violations, varying simulated spin up times and scatter gather list variation for data.

8. A system for verifying operation of an initiator in a bus architecture, comprising:
- means for receiving a selected characteristic for testing;
  - means for controlling a behavior of a target according to said selected characteristic; and
  - means for validating operation of an initiator, whereby a response of said initiator to said behavior of said target is monitored to ensure proper initiator operation.
9. The system as claimed in claim 8, wherein said selected characteristic for testing is part of a full domain testing scheme whereby a receipt of said selected characteristic is a single test of said full domain testing scheme.
10. The system as claimed in claim 8, wherein said means for controlling said behavior of said target includes means for delivering an executing request to said target, said execution request including a vendor unique command.
11. The system as claimed in claim 10, wherein said vendor unique command relates to said selected characteristic for testing.
12. The system as claimed in claim 8, further comprising means for validating operation of said target by monitoring a second response of said target to said response of said initiator.

13. The system as claimed in claim 8, wherein said selected characteristic for testing is at least one of XFER-READY data request size, disconnect boundaries, failure status packets, data overrun injection, data underrun injection, CRC error injection, protocol violations, varying simulated spin up times and scatter gather list variation for data.

14. The system as claimed in claim 8, wherein said bus architecture operates according to s at least one of the following protocols: SCSI, SAS and Fibre Channel.

15. A method for verifying operation of an initiator in a bus architecture, comprising:

- receiving a selected characteristic for testing;
- delivering an execution request to said target, said execution request including a vendor unique command;
- executing of said execution request by said target; and
- validating operation of an initiator, whereby a response of said initiator to a behavior exhibited by said target is monitored to ensure proper initiator operation.

16. The method as claimed in claim 15, wherein said receiving of said selected characteristic for testing is part of a full domain testing scheme whereby a receipt of said selected characteristic is a single test of said full domain testing scheme.

17. The method as claimed in claim 15, wherein said behavior of said target is controlled by the execution of the execution request by said target.

18. The method as claimed in claim 15, further comprising validating operation of said target by monitoring a second response of said target to said response of said initiator.

19. The method as claimed in claim 15, wherein said desired characteristic for testing is at least one of XFER-READY data request size, disconnect boundaries, failure status packets, data overrun injection, data underrun injection, CRC error injection, protocol violations, varying simulated spin up times and scatter gather list variation for data.

20. The method as claimed in claim 15, wherein said bus architecture operates according to at least one of the following protocols: SCSI, SAS and Fibre Channel.